

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|---------------------|
| L2 | 690 | @ad<"20030627" and ("455"/\$ "375"/\$ "333"/\$ "343"/\$).ccls. and (different near3 (type characteristic) near3 antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/04 14:40 |
| L3 | 119 | L2 and (directional near antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/04 14:40 |
| L4 | 13 | 3 and (dual near2 antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/04 14:49 |
| L5 | 0 | L2 and (omnidirectional omni-directional) near3 "and" near3 directional | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/04 14:51 |
| L6 | 2 | ("5771449").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/11/04 14:53 |
| L7 | 54 | ("2288802" "4525861" "4528656" "4633463" "4704733" "4747160" "4783664" "4785450" "4920567" "5212830" "5280297" "5491739").PN. OR ("5771449").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/11/04 14:56 |
| L8 | 42 | @ad<"20030627" and 7 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/04 14:56 |
| L9 | 45 | @ad<"20030627" and (omnidirectional omni-directional) near4 directional near4 together | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/11/04 15:06 |
| S1 | 973 | (455/168.1,176.1,180.1,188.1).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 15:36 |

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|-----|------|---|---|----|-----|---------------------|
| S2 | 568 | S1 and @ad<"20030627" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 10:23 |
| S3 | 44 | S2 and ((low adj noise adj amplifier) or LNA) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:05 |
| S8 | 6577 | @ad<"20030627" and "455"/\$.ccls. and ((two second) near3 receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:10 |
| S9 | 2340 | @ad<"20030627" and "455"/\$.ccls. and ((two second) near3 receiver).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 16:45 |
| S10 | 310 | S9 and ((low adj noise adj amplifier) LNA) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:36 |
| S11 | 62 | S10 and (detect\$3 with (interference cancellation)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:04 |
| S12 | 11 | S11 and (dual-band multi-band dual- frequency multi-frequency) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 14:37 |
| S13 | 19 | S10 and (detect\$3 with (interference cancellation)).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:04 |
| S14 | 76 | @ad<"20030627" and "455"/\$.ccls. and (different near3 (radiation near pattern)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:20 |
| S15 | 8 | S14 and ((omni-directional omnidirectional non-directive nondirective) same directive same antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:24 |

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| S16 | 1 | S14 and ((omni-directional omnidirectional non-directive nondirective) same directive same antenna).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:25 |
| S17 | 5 | @ad<"20030627" and "455"/\$.ccls. and ((omni-directional omnidirectional non-directive nondirective) same directive same antenna).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:28 |
| S18 | 4 | @ad<"20030627" and "455"/\$.ccls. and ((omni-directional omnidirectional non-directive nondirective) same directive same antenna).bsum. and (two near2 antennas).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 11:29 |
| S25 | 115 | ("3694754" "3699444" "4044359" "4072455" "4218773" "4275397" "4338606" "4466131" "4509198" "4593413" "4644562" "4713817" "4852123" "4992798" "5027430" "5031193" "5048059" "5068918" "5109390" "5124672" "5155744" "5164961" "5191598" "5291474" "5301367" "5319677" "5337005" "5351274" "5355524" "5361404" "5390168" "5392460" "5408201" "5471652" "5481572" "5519885" "5584056" "5602847" "5678222" "5680419" "5722053" "5727019" "5732330" "5757921" "5758266" "5787126" "5787131" "5793794" "5796788" "5809090" "5825887" "5878093" "5889827" "5898907" "6081566").PN. OR ("2003/0069036" "2003/0199261" "5125108" "5152010" "5966646" "5974305" "6173014").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/02/10 12:56 |
| S26 | 114 | @ad<"20030627" and S25 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 13:05 |
| S28 | 2 | S26 and (whip adj antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 12:56 |
| S30 | 30 | S26 and ((low adj noise adj amplifier) LNA) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 13:08 |

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| S31 | 4 | (("5905467") or ("5274388")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 15:42 |
| S32 | 35 | ("4670717" "4992799" "5337061" "5561437" "5564078" "5572223" "5649306").PN. OR ("5274388" "5905467"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/02/10 13:11 |
| S33 | 32 | S32 and @ad< "20030627" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 13:11 |
| S34 | 6 | S33 and ((omni-directi\$5 directiv\$3) with antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 13:47 |
| S35 | 2 | S33 and (two with receivers) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 13:47 |
| S39 | 9 | S22 and (two near2 receivers) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 15:07 |
| S42 | 5 | S22 and ((microstrip patch) with antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:09 |
| S43 | 50 | @ad< "20030627" and "455"/\$.ccls. and (((microstrip patch) with antenna) same gps) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:10 |
| S44 | 8 | S43 and (radiation with pattern) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:11 |
| S45 | 3 | S43 and (antenna with directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:11 |

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|-----|-------|---|---|----|-----|---------------------|
| S46 | 6 | ("4829309" "5007105" "5410749" "5627548" "5889474" "6346919").PN. OR ("6697020").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/02/10 15:29 |
| S47 | 14 | S43 and ((low adj noise adj amplifier) LNA) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 15:36 |
| S48 | 1 | S31 and (detect\$3 interference cancellation) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 15:43 |
| S49 | 14 | (US-20030069036-\$ or US-20030199261-\$). did. or (US-5809090-\$ or US-5502446-\$ or US-6173014-\$ or US-5274388-\$ or US- 5966646-\$ or US-5974305-\$ or US-5905467- \$ or US-6597926-\$ or US-6259902-\$ or US- 5152010-\$ or US-5125108-\$ or US-6697020- \$).did. | US-PGPUB; USPAT | OR | OFF | 2006/02/10 16:25 |
| S50 | 5 | S49 and baseband | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/10 16:25 |
| S51 | 67 | @ad<"20030627" and "455"/\$.ccls. and (detect\$3 with interference with cancellation).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/10 16:46 |
| S52 | 70888 | "455"/\$.ccls. and @ad<"20030627" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/16 15:37 |
| S53 | 108 | S52 and ((direct adj conversion) and (down adj conver\$3) and baseband).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 15:40 |
| S55 | 8 | S53 and (baseband adj processor).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/02/16 15:43 |
| S56 | 5849 | @ad<"20030627" and (cancel\$4 with (noise interference)).bsum. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 11:45 |

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| S57 | 27 | S56 and (VCO (Voltage adj Controlled adj Oscillator)) and (LNA (Low adj Noise adj Amplifier)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 12:58 |
| S58 | 22791 | @ad<"20030627" and (eliminat\$3 with (noise interference)).bsum. not S56 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 11:46 |
| S59 | 85 | S58 and (VCO (Voltage adj Controlled adj Oscillator)) and (LNA (Low adj Noise adj Amplifier)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 11:46 |
| S60 | 0 | (S57 or S59) and (second adj receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 13:04 |
| S61 | 17 | (S57 or S59) and UHF | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/06/19 13:04 |
| S62 | 1279 | @ad<"20030627" and ("455"/\$ "375"/\$). ccls. and (diversity near combin\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:21 |
| S65 | 156 | S62 and (LNA (low adj noise adj amplifier)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:18 |
| S66 | 24 | S65 and (VCO (voltage adj controlled adj oscillator)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:18 |
| S67 | 990 | @ad<"20030627" and ("455"/\$ "375"/\$). ccls. and (LNA (low adj noise adj amplifier)) and (VCO (voltage adj controlled adj oscillator)) and mixer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:02 |
| S68 | 79 | S67 and (second near receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:24 |

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|-----|------|--|---|----|-----|---------------------|
| S70 | 27 | S68 and (antennas (second near antenna)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/04/10 14:38 |
| S71 | 2 | S68 and (type near antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:29 |
| S72 | 8 | S68 and (WAN (wide adj area adj network)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 14:38 |
| S73 | 14 | ("4670717").PN. OR ("5274388").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/04/10 15:01 |
| S74 | 670 | @ad<"20030627" and ("455"/\$ "375"/\$ "333"/\$ "343"/\$).ccls. and (different near3 (type characteristic) near3 antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:02 |
| S75 | 199 | S74 and diversity | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:03 |
| S76 | 52 | S75 and (patch near2 antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:04 |
| S77 | 1 | 10/607796 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/10 15:14 |
| S78 | 1050 | @ad<"20030627" and "455"/\$.ccls. and (antenna with receiv\$3 near3 only) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 16:45 |
| S79 | 85 | @ad<"20030627" and "455"/\$.ccls. and ((first second) near3 antenna with receiv\$3 near3 only) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 17:39 |

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|-----|-----|--|---|----|----|---------------------|
| S80 | 55 | S79 and ((first second) near3 antenna with transmi\$5 near3 receiv\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 16:49 |
| S81 | 8 | S80 and (omni-directional (omni adj directional) omnidirectional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 16:57 |
| S82 | 47 | S80 not S81 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/27 17:14 |
| S83 | 2 | S82 and (VCO (voltage adj controlled adj oscillator)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 11:28 |
| S84 | 5 | @ad<"20030627" and "455"/\$.ccls. and ((duplex near2 antenna) same (receiv\$3 near2 only)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 11:05 |
| S85 | 41 | ("3775689" "4099121" "4378605" "4573155" "4596024" "4646082" "4823123" "4825193" "4940963" "5070329" "5093924" "5153582" "5184349" "5224150" "5369681" "5404569" "5475863" "5481572" "5507022" "5564090").PN. OR ("5809090").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/27 17:53 |
| S86 | 24 | ("3775689" "4099121" "4378605" "4573155" "4596024" "4646082" "4823123" "4825193" "4940963" "5070329" "5093924" "5153582" "5184349" "5224150" "5369681" "5404569" "5475863" "5481572" "5507022" "5564090").PN. OR ("6088407").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/27 18:02 |
| S87 | 43 | ("4199661" "4232294" "4342995" "4445214" "4517561" "4517669" "4519068").PN. OR ("4646082").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/28 10:37 |
| S88 | 597 | @ad<"20030627" and "455"/\$.ccls. and (first adj receiver) same (second adj receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 11:06 |
| S89 | 158 | S88 and duplex\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 11:11 |

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|------|------|--|---|----|----|---------------------|
| S90 | 35 | S89 and (first adj antenna) and (second adj antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 13:30 |
| S91 | 15 | ("4670717").PN. OR ("5274388").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/08/28 11:28 |
| S92 | 0 | S91 and (VCO (voltage adj controlled adj oscillator)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 13:30 |
| S93 | 4 | S91 and down | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 11:34 |
| S95 | 1 | S91 and convert\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 12:24 |
| S96 | 7 | S90 and (VCO (voltage adj controlled adj oscillator)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/08/28 13:30 |
| S97 | 124 | @ad<"20030627" and "455"/\$.ccls. and (dual adj antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:36 |
| S98 | 37 | S97 and ((directional smart) adj antenna) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:18 |
| S99 | 29 | S98 and directional | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:18 |
| S100 | 1723 | @ad<"20030627" and ("455"/\$ "333"/\$ "343"/\$ "375"/\$).ccls. and (antenna adj diversity) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:59 |

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| S101 | 178 | S100 and directional and (omni-directional omnidirectional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:45 |
| S103 | 31 | S101 and (multipath adj fad\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 14:46 |
| S104 | 65 | @ad<"20030627" and ("455"/\$ "333"/\$ "343"/\$ "375"/\$).ccls. and ((patch planar) adj antenna) and (multipath adj fading) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:02 |
| S105 | 20 | S104 and ((two dual rake) adj receiver) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:03 |
| S106 | 11 | S105 and (omnidirectional omni-directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:34 |
| S107 | 15 | ("4670717").PN. OR ("5274388").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/23 15:16 |
| S108 | 29 | S104 and (omnidirectional omni-directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:23 |
| S109 | 196 | ((directional patch planar) adj antenna) with (omnidirectional omni-directional) with (together both)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:24 |
| S110 | 9 | S109 and (multipath adj fading) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:25 |

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|------|----|---|---|----|----|---------------------|
| S111 | 31 | (US-20030069036-\$ or US-20040224654-\$ or US-20030199261-\$ or US-20030104796-\$ or US-20020163391-\$ or US-20030027610-\$ or US-20040266356-\$ or US-20040014432-\$).did. or (US-6088407-\$ or US-5974305-\$ or US-5152010-\$ or US-6711418-\$ or US-5274388-\$ or US-6249190-\$ or US-6226276-\$ or US-6724804-\$ or US-6697020-\$ or US-5809090-\$ or US-5125108-\$ or US-5905467-\$ or US-4517669-\$ or US-4186347-\$ or US-6597926-\$ or US-6173014-\$ or US-5502446-\$ or US-6259902-\$ or US-5966646-\$ or US-6842629-\$ or US-6023615-\$ or US-4646082-\$ or US-6560443-\$).did. | US-PGPUB; USPAT | OR | ON | 2008/01/23 15:28 |
| S112 | 5 | S111 and (type near2 antenna) | US-PGPUB; USPAT | OR | ON | 2008/01/23 15:34 |
| S113 | 3 | S112 and (omnidirectional omni-directional) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/01/23 15:34 |

11/ 4/ 2008 3:54:38 PM

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